

IN THE DRAWINGS

The attached sheet of drawings is a new drawing.

Attachment: New Drawing Sheet

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 11, 14, 15, 17, 18, and 24 are pending in the present application, Claims 11 and 24 having been amended, and Claim 13 having been canceled without prejudice or disclaimer. Support for the amendments to Claims 11 and 24 is found, for example, at page 16, lines 2-13 of the specification. Applicants respectfully submit that no new matter is added.

In the outstanding Office Action, the drawings were objected to; Claims 11, 13, 15, 17, and 24 were rejected under 35 U.S.C. §112, first paragraph; Claims 11, 13, 15, 17, and 24 were rejected under 35 U.S.C. §112, second paragraph; Claims 11, 12, 15, and 17 were rejected under 35 U.S.C. §102(e) as anticipated by Moser et al. (U.S. Patent No. 3,735,811, hereinafter Moser); and Claims 11, 12, 15, 17, and 24 were rejected under 35 U.S.C. §103(a) as unpatentable over Moser in view of applicant's conceded prior art described on page 1 (13 lines from the bottom)-page 6, line 2 of the specification.

With respect to the objection to the drawings, a new figure 8A is added to show an embodiment where channel 17 is within cooling water outlet 5. New Fig. 8A is a side elevation showing the second embodiment of the invention, which corresponds to elected Fig. 8. New Fig. 8A finds support in original Figs. 6 and 8, and page 16, lines 2-13 of the originally filed specification. Applicants respectfully submit that no new matter is added, and that all the elements of the claims are shown in the figures. Accordingly, the objection to the drawings is overcome.

With respect to the rejection under 35 U.S.C. §112, first paragraph, the language objected to in the outstanding Office Action has been removed from the independent claims. Accordingly, this ground of rejection has been overcome.

With respect to the rejection under 35 U.S.C. §112, second paragraph, the informality identified in Claims 11 and 24 has been corrected (i.e., “tube” has been changed to “tubes”). Furthermore, the language “diametrically opposite” has been removed from the independent claims. Accordingly, this ground of rejection has been overcome.

With respect to the rejection of Claim 11 as anticipated by Moser, Applicants respectfully traverse this ground of rejection. Amended Claim 11 recites, *inter alia*, “a bypass flow path, arranged in said shell, to guide the cooling water to a direction perpendicular to the flow of the cooling water through the inlet.” Moser does not disclose or suggest this element of Claim 11.

Page 5 of the outstanding Office Action takes the position that element 11 identifies a flow path, and that it corresponds to the claimed “bypass flow path.” Applicants respectfully traverse this position. Moser states that element 11 is a collecting space.¹ Moreover, collecting space 11 does not guide the cooling water to a direction perpendicular to the flow of the cooling water through the inlet.

Furthermore, Moser does not disclose or suggest a path that guides cooling water to a direction perpendicular to the flow of cooling water through inlet 5.

Furthermore, Moser is not only quite different in arrangement and structure, Moser includes partitions 7 and 7’ which cause a problem by generating stagnation of the cooling water near partitions 7 and 7’. As stated in Applicants’ specification, the bypass flow path prevents cooling water stagnation.²

In view of the above-noted distinction, Applicants respectfully submit that amended Claim 11 (and any claims dependent thereon) patentably distinguish over Moser.

Claim 24 recites “a bypass flow path, arranged in said shell, to guide the cooling water to a direction perpendicular to the flow of the cooling water through the inlet.” As

¹ Moser, col. 2, line 52.

² Specification, page 13, lines 22-24, and page 16, lines 19-21.

characterized above, Moser fails to disclose or suggest this feature. Thus, Claim 24 patently distinguishes over Moser.

With respect to the rejection of claims under 35 U.S.C. §103(a) as unpatentable over Moser in view of admitted prior art, Applicants' admitted prior art does not cure the deficiencies in Moser. Applicants' admitted prior art does not disclose or suggest the claimed "a bypass flow path, arranged in said shell, to guide the cooling water to a direction perpendicular to the flow of the cooling water through the inlet." Thus, the rejections of Claims 11 and 24 (and their dependent claims) under 35 U.S.C. §103(a) is also traversed.

Consequently, in light of the above discussion and in view of the present amendment, the present application is believed to be in condition for allowance and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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